AN

4	Application No.	Applicant(s)		
	10/719,371	19,371 LIONG ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Kristie D. Shingles	2141		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>10/30/2007</u> .				
2. The allowed claim(s) is/are <u>1,3-11,13-19 and 21-26</u> .				
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Topies of the priority documents have	e been received. e been received in Application No cuments have been received in this r	national stage applica		
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application. itted. Note the attached EXAMINER'	S AMENDMENT or N		
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara	tion is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") mus				
(a) ☐ including changes required by the Notice of Draftspers	•	948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment (Comment or in the O	mice action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. AL MATERIAL.	Note the	
Attachment(s) 1. \(\sum \) Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. ⊠ Interview Summary (PTO-413), Paper No./Mail Date <u>2/1/08</u> .		
3. Information Disclosure Statements (PTO/SB/08),		7. ⊠ Examiner's Amendment/Comment		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for All	owance	
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DETAILED ACTION

Per Applicant's Request for Continued Examination
Claims 1, 2, 4, 5, 7, 8, 10, 11, 13, 14, 18, 21, 25 and 27 are amended.
Claims 1-27 are pending.

Per Examiner's Amendment

Claims 1, 3, 4, 7, 11, 13, 14, 21, 25 and 26 are amended. Claims 2, 12, 20 and 27 are cancelled.

Claims 1, 3-11, 13-19 and 21-26 are allowed.

Continued Examination Under 37 CFR 1.114

I. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/30/2007 has been entered.

Response to Arguments

II. Applicant's arguments (see Remarks pages 9-18 filed 10/30/2007) with respect to claims 1, 5, 11, 14 and 21 have been fully considered and are persuasive. The rejections of the pending claims have therefore been withdrawn.

Examiner's Amendment

III. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

IV. Authorization for this Examiner's amendment was given in a telephone interview with Atty. Sejoon Ahn on February 1, 2008. Please make the following changes:

Claim 1 (amended): A system comprising:

a policy server device that is arranged to

configure a customer policy comprising a tunnel mode <u>and a tunnel group</u> <u>identifier</u>,

configure a mapping policy that maps between an experimental field and a unique per-hop-behavior, and

send the mapping policy and the customer policy to interfaces of devices of a network that includes multi-protocol label switching tunnels, corresponding to the tunnels, at least one of the network devices comprising an egress interface of one of said multi-protocol label switching tunnels, wherein the interfaces and the customer policy are associated with a same role name.

Cancel Claim 2.

Claim 3 (amended): The system of claim 1, wherein the policy server <u>device</u> translates the mapping policy into device specific commands, and deployment <u>sending</u> is performed by deploying commands to specific devices.

Claim 4 (amended): The system of claim 1, wherein deployment sending is such that the interfaces associate with at least one of input roles, output roles and multi-protocol label switching gateways of customer source and destination host groups.

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Claim 7 (amended): The apparatus of claim 5, wherein deployment sending is such that the interfaces associate with at least one of input roles, output roles and multi-protocol label switching gateways of customer source and destination host groups.

Claim 11(amended): An apparatus comprising a processor with:

- a <u>defining</u> means for defining a mapping policy that maps between an experimental field and a unique per-hop-behavior;
- a maintaining means for maintaining a customer policy, the customer policy comprising a tunneling mode and a tunnel group identifier;
- a translating means for translating the mapping policy, the network policy and customer policy into device-specific commands; and
- a <u>sending</u> means for sending the device-specific commands to policy targets, wherein each policy target comprises a network device that includes an interface that is associated with a role name that is also associated with the customer policy, said interfaces including an egress interface of at least one of multi-protocol label switching tunnels.

Cancel Claim 12.

Claim 13 (amended): The apparatus of claim 11, wherein deployment sending is such that the interfaces associate with at least one of input roles, output roles and multiprotocol label switching gateways of customer source and destination host groups.

Claim 14 (amended): An article comprising: a storage medium, the storage medium having instructions stored thereon, wherein when the instructions are executed by at least one device, they result in:

defining a mapping policy that maps between an experimental field and a unique perhop-behavior;

defining a customer policy comprising a tunneling mode <u>and a tunnel group</u> <u>identifier</u>, the customer policy being configured to govern the treatment o f individual customer traffic;

defining a network policy that is configured to define the Diffserv treatment of aggregated traffic;

translating the mapping policy, the network policy and the customer policy into device-specific commands; and

deploying the device-specific commands to policy targets, wherein each policy target comprises a network device that includes an interface that is assigned a role name associated with the customer policy, at least one interface comprising an egress interface of at least one multi-protocol label switching tunnel.

Cancel Claim 20.

Claim 21 (amended): A method comprising:

defining a mapping policy configured to map between an experimental field and a unique per-hop-behavior;

defining a customer policy comprising a tunneling mode <u>and a tunnel group</u> <u>identifier</u>, the customer policy being configured to govern the treatment of individual customer traffic;

defining a network policy that is configured to define the Diffserv treatment of aggregated traffic;

translating the mapping policy, the network policy and the customer policy into device-specific commands; and

sending the device-specific commands to policy targets, wherein each policy target comprises a network device that includes an interface assigned a role name associated with the customer policy, at least one of the interfaces comprising an egress interface of one of multi-protocol label switching tunnels.

Claim 25 (amended): The method of claim 21, wherein deployment sending is such that the interfaces associate with at least one of input roles, output roles and multi-protocol label switching gateways of customer source and destination host groups.

Claim 26 (amended): The method of claim 21, wherein deploying sending the mapping policy to the network interfaces further comprises issuing new commands to reconfigure a router based on the mapping policy.

Cancel Claim 27.

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Reasons for Allowance

(The following is an examiner's statement of reasons for allowance)

- V. The prior art or record fails to teach neither singly nor in combination, the
- claimed limitations of "a policy server device that is arranged to configure a customer
- policy comprising a tunnel mode and a tunnel group identifier" as stated in independent
- Claims 1, 5, 11, 14 and 21 (see Applicant's Specification, page 4).
- VI. Specifically, the feature of configuring a customer policy comprising a tunnel
- mode and a tunnel group identifier is not expressly taught or suggested by the prior art,
- wherein Applicant's disclosure defines the tunnel mode as a method of "translating
- DiffServ information in the multi-protocol label switching header into DSCP values"
- having two modes: uniform or pipe mode (see Applicant's Specification, page 4).
- Applicant's hardware embodiment of a policy server device having this functionality is
- not disclosed by the prior art.
- VII. As discussed in Applicant's Remarks filed 10/30/2007, these limitations, in
- conjunction with other limitations in the independent and dependent claims, are not
- specifically disclosed or remotely suggested in the prior art of record. A review of Claims
- 1, 3-11, 13-19 and 21-26 in view of the Examiner's remarks above, indicates that Claims
- 1, 3-11, 13-19 and 21-26 are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than

the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

VIII. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Kristie Shingles whose telephone number is 571-272-3888. The Examiner can normally be reached on Monday-Friday 8:30-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kristie D. Shingles Examiner Art Unit 2141

kds

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